

OIB - Other: GV 09/24/15 Science Report

Aircraft:

Other: GV

Date:

Thursday, September 24, 2015

Mission:

OIB

Mission Location:

Punta Arenas, Chile

Mission Summary:

OIB Ant2015 Sea and land ice, Flight2 9/24/15

LVIS and DMS installed on the GV.

Target Area: Thwaites glacier, with sea ice and land ice data collected en route

Sea ice data collected on transits in Bellingshausen. Clear conditions encountered south of ~65.8S, though some bands of clouds present. Both instruments operated normally.

Land ice data collected from Abbott area to Thwaites, including over PIG tongue on transits. Thwaites data collection repeated and extended existing OIB grid lines over Thwaites glacier (low altitude ThwaitesA plan). No data loss due to clouds over land.

Both LVIS and DMS operated normally

Calibration maneuvers performed during flight and prior to landing at Punta Arenas.

Data collected:

DMS - 30G

LVIS - 200G

Submitted by:

Michelle Hofton on 09/24/15

Related Flight Report:

Other: GV 09/24/15

Flight Number:

8

Payload Configuration:

OIB-2015

Nav Data Collected:

No

Total Flight Time:

11 hours

Submitted by:

Pavel Romashkin on 09/24/15

Flight Segments:

From:	SCCI	To:	SCCI
Start:	09/24/15 12:07 Z	Finish:	09/24/15 22:50 Z
Flight Time:	11 hours		
Log Number:	15M046	PI:	John Woods
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		

Comments:

RF02, Antarctic research flight, Thwaites area. Today's mission was a successful completion of the baseline priority Thwaites A line. Despite conflicting weather forecasts the line turned out to be clear and excellent for data collection for both LVIS and DMS. We also collected a significant amount of sea ice data over the Bellingshausen Sea during the transit making for an overall successful day. A ramp pass was conducted, though lighting conditions may have been sub-optimal for DMS. We may attempt a ramp pass for DMS during a short cal flight on a down day if time allows. (Nathan Kurtz)

Flight Hour Summary:

	15M046	16M026
Flight Hours Approved in SOFRS	180	15
Flight Hours Previously Approved		109.5
Total Used	62.7	148.1
Total Remaining		-23.6

16M026 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
10/01/15	11	Science	1.8	1.8	122.7
10/03/15	12	Science	10.8	12.6	111.9
10/05/15	13	Science	11	23.6	100.9
10/07/15	14	Science	10.3	33.9	90.6
10/10/15	15	Science	10.5	44.4	80.1
10/12/15	16	Science	10.8	55.2	69.3
10/14/15 - 10/15/15	17	Science	9.3	64.5	60
10/17/15	17	Science	11.8	76.3	48.2
10/19/15	18	Other	2.2	78.5	46
10/20/15	19	Science	10.8	89.3	35.2
10/22/15	20	Science	10.9	100.2	24.3
10/25/15	21	Science	10.2	110.4	14.1
10/27/15 - 10/28/15	22	Science	11.1	121.5	3
10/29/15	23	Science	10	131.5	-7
10/31/15	24	Other	2.2	133.7	-9.2
11/01/15	25	Other	5.1	138.8	-14.3
11/02/15 - 11/03/15	26	Other	9.3	148.1	-23.6

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Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

15M046 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
09/10/15	1	Check	4	4	176
09/11/15	2	Check	2.8	6.8	173.2
09/11/15 - 09/12/15	3	Check	1.7	8.5	171.5
09/17/15	4	Check	3.7	12.2	167.8
09/18/15	5	Transit	2.1	14.3	165.7
09/18/15 - 09/19/15	5	Transit	7.8	22.1	157.9
09/19/15	6	Transit	6.7	28.8	151.2
09/22/15	7	Science	10.5	39.3	140.7
09/24/15	8	Science	11	50.3	129.7
09/26/15	9	Science	9.8	60.1	119.9
09/29/15	10	Science	10.4	70.5	109.5